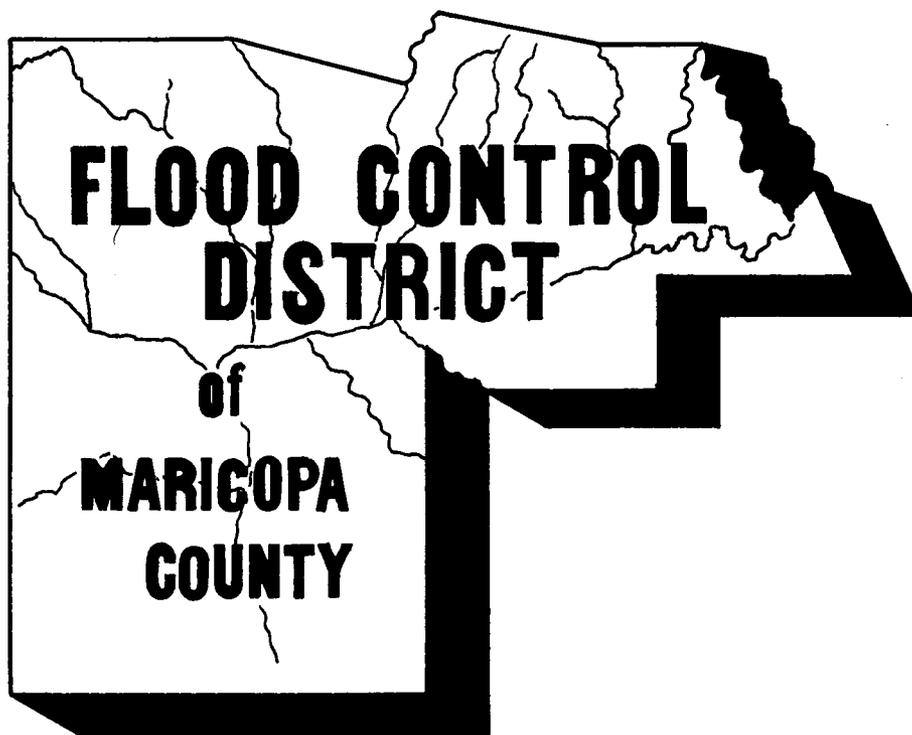


ANNUAL REPORT

Property of
Flood Control District of MC Library
Please Return to
2801 W. Durango
Phoenix, AZ 85009



JULY 1, 1985 to JUNE 30, 1986

003.105

CONTENTS

Letter from the Chief Engineer and General Manager	1
Financial Highlights	2
Accomplishments	3
Finished Projects	3
Activities in Progress	5
Financial Report	11
Statement of Revenues and Expenditures	11
Expenditures by Activities	12
Expenditures on Land	14
Income Figures for Rental Program	14
Tax Rate History	14
Boards and Officers	15
Project Map	16
Organization Chart	inside back cover

BACKGROUND

The District, founded in 1959, is a municipal corporation and political subdivision of the State of Arizona. The District is governed by a Board of Directors which is also the Board of Supervisors of Maricopa County. A Flood Control Advisory Board advises the Board of Directors.

The purpose of the District is to prevent loss of life or injury to residents of Maricopa County and the elimination or minimizing of flood damages to real and personal property. In fulfilling its purpose, the District:

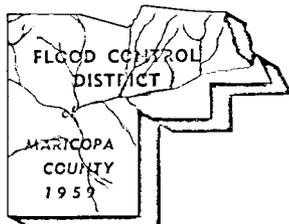
1. Provides floodplain management for Maricopa County and certain municipalities within the County.
2. Provides stormwater drainage review for the unincorporated area of Maricopa County.
3. Studies flooding and drainage problems and plans and constructs projects alone or in cooperation with others.

4. Acts as the local sponsor of federal flood control projects designed and constructed by the U.S. Army Corps of Engineers and the Soil Conservation Service. The District acquires the necessary rights-of-way and relocates facilities and people affected by the projects.

5. Operates and maintains completed flood control structures.

6. Assists in providing early warning of potential floods and provides technical leadership during floor emergencies. Collects and distributes hydrometeorological data from the District's rain and stream gauge network.

The activities of the District are funded by a Flood Control Tax Levy assessed on all real property within Maricopa County and a variety of cost sharing arrangements with the State, Maricopa County and local governments.



FLOOD CONTROL DISTRICT

of

Maricopa County

3335 West Durango Street • Phoenix, Arizona 85009

Telephone (602) 262-1501

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2801 W. Durango

Phoenix, AZ 85009

BOARD OF DIRECTORS

George L. Campbell, Chairman

Carole Carpenter

Tom Freestone

Fred Koory, Jr.

Ed Pastor

D. E. Sagramoso, P.E., Chief Engineer and General Manager

LETTER FROM MANAGEMENT

Probably the most exciting event of the year was the start of construction of the Arizona Canal Diversion Channel (ACDC). This project has been the focal point of flood control protection for the Phoenix Metropolitan area for many, many years. It was with a great deal of pride and sense of accomplishment that the Corps of Engineers and the Flood Control District participated in a ground breaking ceremony and watched the first bucket of earth being moved. Although the project won't be completed until approximately late 1991, at the fiscal year's end the "Reach 1" contract was 65% complete and we are well under way.

Perhaps the most unusual event was agreeing to advance money to the Federal Government for the construction and construction engineering costs of Federal projects. Flood protection in the eastern Maricopa County area is extremely important to us and when Soil Conservation Service funding faltered, we agreed to advance funds for the last two segments of the Buckhorn-Mesa Project at a cost of \$10.5 million and Reach 4 of the RWCD Floodway at a cost of \$1.5 million.

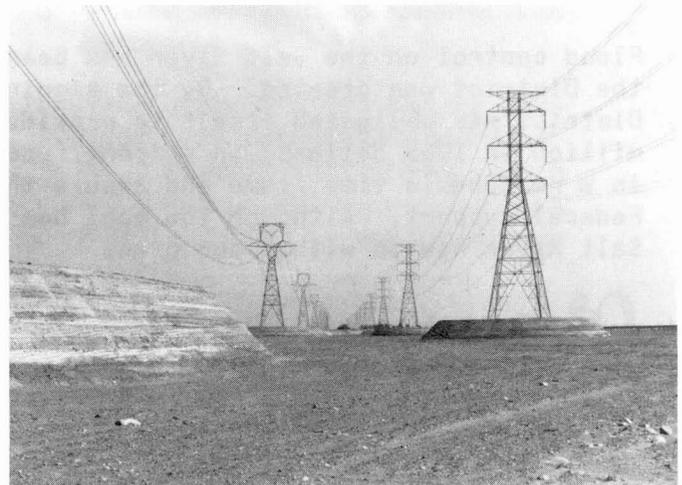
Flood control on the Salt River has been an elusive goal of the District since the District was created. By the signing of the Plan 6 Agreement, the District has obligated itself to provide 20% of the flood control costs (\$60 million in 1985 dollars) in upfront funding to assure completion of the project in a reasonable time frame and assure that the project will receive continued Federal support. Although the goal has not been reached, flood control on the Salt River now is within our grasp.

D. E. Sagramoso

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
FINANCIAL HIGHLIGHTS FOR THE YEAR ENDED JUNE 30, 1986
(Preliminary and Unaudited)**

	DOLLARS	PERCENT
REVENUES		
Flood Control Tax	\$33,644,000	73%
Rental Income	935,000	2%
Interest	2,140,000	5%
State Assistance - Local Projects	4,428,000	10%
Local Participation	3,867,000	8%
Miscellaneous	843,000	2%
Total Revenues	<u><u>45,857,000</u></u>	<u><u>100%</u></u>
EXPENDITURES		
Administration and Maintenance	4,451,000	8%
Flood Control Capital Improvements	51,370,000	92%
Total Expenditures	<u><u>55,821,000</u></u>	<u><u>100%</u></u>
Excess (Deficiency) of Revenues Over Expenditures	(9,964,000)	
Fund Balance at Beginning of Year	28,457,000	
Fund Balance at End of Year	<u><u>\$18,493,000</u></u>	
EXPENDITURES BY TASK		
Administration	\$ 2,947,000	5%
Land Acquisition	11,325,000	20%
Relocation of Utilities, Bridges and Other Facilities	11,719,000	21%
Construction	21,726,000	39%
Maintenance	2,186,000	4%
Cost Sharing in Projects Managed by Others	5,918,000	11%
Total	<u><u>\$55,821,000</u></u>	<u><u>100%</u></u>

Agua Fria Channelization. Soil cement on banks and around high voltage overhead power towers in the Agua Fria Channel is 8 feet thick and approximately 21 feet above and 8½ feet below the channel bottom.





Board of Directors: George Campbell, Fred Koory, Jr., Tom Freestone, Carole Carpenter, Ed Pastor.

FINISHED PROJECTS

AGUA FRIA CHANNELIZATION PROJECT — Reach 1 of the Agua Fria Channelization Project was completed in April 1986 at a cost of \$8,433,355.30, and Reach 2 was completed in June 1986 at a cost of \$8,230,364.44. The Agua Fria Channelization Project was developed to resolve some of the flooding problems along the Agua Fria River that became evident during the flooding of 1978 to 1980. It is designed to safely contain and convey the Standard Project Flood estimated to be 142,000 cfs. The total project is expected to cost approximately \$40 million, a portion of which will be shared by others and is, by far, the largest and most expensive project of the District other than our Federal projects.

Reach 1 extends from north of Indian School Road to Thomas Road. The construction contractor was Ball, Ball & Brosamer. The job involved filling two large sand and gravel pits, construction of levees and dikes protected with soil cement or riprap, construction of a grade control structure, installation of a 108 inch inverted siphon, and construction of a new irrigation district canal replacing an existing elevated metal flume. A special challenge was designing the relocation of the only water line serving Avondale so the water line would not have to be shut down more than

a few hours. Another challenge involved the uncertainties of constructing the new irrigation facilities through an existing sand and gravel operation waste water sump. The unanticipated poor soil conditions of saturated clay, silt and muck required additional geotechnical studies and application of innovative engineering techniques to drain the water.

Reach 2 extends from Thomas Road to approximately 500 feet south of I-10. The construction contractor was M. M. Sundt. Soil cement levees were constructed through the new McDowell Road Bridge and the I-10 Bridge, three grade control structures were constructed, the I-10 diversion channel was extended to the Agua Fria River, and seven large power utility towers were protected.

Reach 3, which extends from south of I-10 to Buckeye Road, is expected to be under construction during the next fiscal year.

Soil cement was used on this project for erosion protection and stability of levees, riverbeds and other features. It has not been used extensively in Maricopa County before and is a new engineering application for the District.

CENTENNIAL LEVEE — Reach 1 of the Centennial Levee in the Harquahala Valley in Western Maricopa County was completed in February 1986 by the Soil Conservation Service. This Levee protects the Valley from flows from the west and helps keep floodwater in Centennial Wash from breaking out across the Valley and damaging agricultural lands, roads and homes. The structure was built in coordination with the Harquahala Irrigation District's distribution system for Central Arizona Project water. The combined Federal and local costs for Reach 1 of the Centennial Levee were approximately \$1.8 million. The Soil Conservation Service has completed the compiling of survey data necessary to start the design of Reach 2.



RWCD Floodway—Reach 3 from Chandler Heights Bridge.



Holly Acres Levee and Bank Stabilization.

HOLLY ACRES LEVEE AND BANK STABILIZATION — The homes in Holly Acres and the surrounding area suffered heavy damages from flooding on the Salt/Gila River from 1978 through 1980. The District has completed a project to protect the Holly Acres Subdivision by constructing a levee four to six feet high and stabilizing the north bank of the Gila River. The levee is designed to provide protection for Holly Acres from a flow of 115,000 cfs in the Salt River which is 100 year protection after the construction of the Plan 6 Flood Control features. Flows in the River delayed completion of the project for many months, but is finally finished in October 1985. The project cost approximately \$1.2 million and half of this was paid by the State of Arizona.

RWCD FLOODWAY, REACH 3 — The third reach of the RWCD Floodway was completed in August 1985. Reach 3 extends from the Gila River Indian Reservation (Hunt Highway) to Queen Creek Road, a distance of 4.43 miles. It is an earthen channel approximately 200 feet wide and ten feet deep. Queen Creek, which often caused flooding in the area and on the Indian Reservation, enters the Floodway in Reach 3, and controlling these floodwaters is one of the main benefits of the Floodway. Because of the tremendous amount of excess soil generated by excavation of the Floodway, the District acquired several spoil disposal sites. The spoil sites can now be sold by the District to recover acquisition costs and to return the land to the tax rolls. A bridge at Queen Creek Road and one at Chandler Heights Road were constructed to cross the Floodway. The combined federal and local costs of Reach 3 were approximately \$6.3 million.



Chuck Smith, Carlos Rivera, at RWCD Floodway.



Fred Koory, Jr., Board of Supervisors; Ron Travers, Mayor of Peoria; Carole Carpenter, Board of Supervisors; George R. Renner, Mayor of Glendale, at ACDC Groundbreaking; October 24, 1985.

ACTIVITIES IN PROGRESS

ARIZONA CANAL DIVERSION CHANNEL (ACDC) — The ACDC is the last feature of the “Phoenix, Arizona and Vicinity (Including New River) Flood Control Project” to be constructed by the Corps of Engineers. The Channel is being constructed north of the Arizona Canal between approximately 75th Avenue and 40th Street. It will divert floodwaters from Cudia City Wash, Dreamy Draw, Cave Creek and other washes into Skunk Creek eliminating breakouts in the Arizona Canal. The ACDC will provide 100 year flood protection to large parts of the Phoenix Metropolitan area.

Reach 1 from Skunk Creek to Cactus Road is now under construction. The Corps of Engineers awarded a construction contract to Kiewit Western Company of Peoria in the amount of \$12,600,000 in September 1985 and construction was approximately 65% complete at the end of the fiscal year.

At an auction held in the spring, the District sold options to purchase 40 of the houses in Reach 2. These houses will be moved off the property and placed on lots elsewhere.

Approximately 85% of the land rights for the total ACDC have been acquired. Seven of the 25 required bridges have been completed and one is under construction. Three additional bridges are being or have been designed.

The Task Force appointed by the Phoenix City Council to study Reach 4 completed its study in April 1986. By 6 to 4 votes, the Task Force voted both to endorse Reach 4 subject to aesthetic conditions, and to delay Reach 4 to study the use of a tunnel as an alternative drain (possibly down 40th Street). The Task Force indicated the tunnel alternative should receive further study because it was not presented to the Task Force until late in the Task Force’s deliberations. The Phoenix City Council has not yet reached a decision as to the future of Reach 4.

RWCD FLOODWAY — The RWCD Floodway is being constructed by the Soil Conservation Service on the upslope (east) side of the Roosevelt Water Conservation District Canal in Eastern Maricopa County. The 27.6 mile-long Floodway is being built in six reaches and will extend from the Gila River to a little north of Brown Road in Mesa. Reach 1 was completed in 1981, Reach 2 in 1983, and Reach 3 in 1985. Reach 4 is scheduled for construction in the fall of 1986.

Approximately three miles of Reach 5 were constructed this year by Leisure World and will be used for golf course and recreation purposes. This was a substantial savings to the District and the Soil Conservation Service in land acquisition and construction costs.

All the major parcels for the Floodway have been acquired leaving only several small segments for ramp construction. All but two of the 19 crossings of the Floodway have been built.



ACDC house on blocks prior to being moved.



Roger Lough, Eric Olsen, George Lindop, checking equipment.

FLOWAGE EASEMENTS — As part of the Corps of Engineers' Phoenix, Arizona and Vicinity (Including New River) Flood Control Project, the District will acquire flowage easements for the 100-year floodplains of Skunk Creek, New River and the Agua Fria. Some levees will be constructed along the Agua Fria as well as some bank stabilization on New River and Skunk Creek.

The District must acquire these flowage easements to protect itself from liability for flood damages since the ACDC will divert floodwaters from the northern metropolitan drainage area to Skunk Creek, New River and the Agua Fria. Through the flowage easements, the District can ensure that development is limited in the floodway even if present laws governing floodplain management are changed. The flowage easements will also preserve open space which is an authorized purpose of the project.

The acquisition of flowage easements was complicated because the State of Arizona has potential ownership claims to the beds of navigable rivers in Arizona. A study conducted at the request of the District could find no evidence that Skunk Creek or New River fall within the definition of navigable riverbeds, and the District is purchasing these rights-of-way through our normal acquisition process. The researchers found records of extended flood flows on the Agua Fria, but no evidence that the flows were used for trade, commerce or navigation, and therefore we believe the Agua Fria is not navigable as defined by the Supreme Court. Until the State takes a position on this issue, acquisition of rights-of-way on the Agua Fria is proceeding through the courts.

OPERATIONS AND MAINTENANCE ACTIVITIES

— The Flood Control District maintains 45 structures including dams, channels and levee systems, and approximately 30% of our staff is involved in this activity. The amount of maintenance work has increased dramatically over the last several years (see chart on opposite page) with new structures coming on line each year as projects are completed. The District has been able to maintain these structures, without a proportional increase in staff, through the extensive use of Department of Corrections' prisoners. This year we used 60,504 man-hours of prisoner labor to perform hand-intensive maintenance such as clearing vegetation and trash removal. The cost to the District was \$30,252.

The Department of Corrections' prisoners were used on the following projects:

PROJECT	HOURS
ACDC	3,508
Adobe Dam	520
Buckeye Dams	1,364
Cave Buttes Dam	1,472
Harquahala Dam & Floodway	18,540
Indian Bend Wash	2,616
McMicken Dam	1,288
New River Dam	604
Old Cross Cut Canal	604
Powerline Floodway	1,240
RWCD Floodway	2,344
Saddleback Dam	1,600
Salt/Gila Clearing	12,716
Spook Hill Dam	9,912
Wickenburg	612
Other	1,564



Klod buster—used to scarify slopes prior to seeding. Being checked by Carlos Rivera.

MAINTENANCE RESPONSIBILITIES

	Inventory as of Jan 1 1980	Added 1/1980 to 1/1984	Added 1/1984 to 1/1986	Added 1/1986 to 7/1986	Total	Percent Increase 1/80-7/86
Bank Protection - Riprap	158.9	463.6	20.5	.2	643.2 acres	304.8
Bridges - Pedestrian	2	4	1	-	7 each	250.0
Bridges - Vehicle	9	5	-	-	14 each	55.6
Culverts, Box	5	2	-	-	7 each	40.0
Culverts, Pipe	5	4	4	-	13 each	160.0
Dip Crossings	3	2	2	-	7 each	133.3
Drainage Channel - Lined	48576	18900	926	600	69002 feet	42.0
Drainage Channel - Unlined	7.5	10.7	96.5	1.8	116.5 miles	1326.7
Drop Structure	18	36	11	7	72 each	300.0
Embankment	409.7	588.3	185.4	29	1212.4 acres	195.9
Embankment, Soil Cement	-	-	39	8.8	47.8 acres	
Fencing	342748	450061	174657	49190	1016656 feet	196.6
Flap Gates	-	13	14	10	37 each	
Floodway - Lined	-	4561	863	-	5424 feet	
Floodway - Unlined	92.6	951.2	757.3	503.8	2304.9 acres	2389.1
Gabions	-	6192	18250	-	24442 sq.yd.	
Gated Outlet	17	6	2	1	26 each	52.9
Gates	91	151	45	42	329 each	261.5
Grade Control Structures	-	-	-	4	4 each	
Gutters, Concrete	430	920	4800	-	6150 feet	1330.2
High Flow	494.5	79	445	-	1018.5 acres	106.0
Landscape	-	11	-	-	11 acres	
Low Flow	563.7	371	264.2	54.3	1253.2 acres	122.3
Manholes	12	22	-	-	34 each	283.0
Meter Houses	3	5	2	-	10 each	233.3
Outlet Structure	10	9	2	1	22 each	120.0
Pilot Channel	-	-	1	-	1 miles	
Pool Area	4644.9	5555	5738.8	1.3	15940 acres	243.2
Principal Outlet	5286	1459	621	145	7511 feet	42.1
Ramps, Asphalt	-	100	-	-	100 feet	
Ramps, Concrete	-	2803	960	120	3883 feet	
Ramps, Earth	300	1250	480	1600	3630 feet	1110.0
Ramps, Grouted Riprap	-	-	-	1260	1260 feet	
Ramps, Soil Cement	-	-	-	1800	1800 feet	
Retaining Wall	-	-	3554	-	3554 feet	
Right-of-Way	3.5	745	-	86	834.5 acres	23742.8
River Clearing	-	4365	-	-	4365 acres	
Roads - Asphalt	-	10.9	2.5	3.2	16.6 miles	
Roads - Dirt	104.9	147.7	60.1	8.7	321.4 miles	206.4
Side Inlet	37	195	36	8	276 each	645.9
Spillway - Earth	237.9	37.2	183.5	-	458.6 acres	92.8
Spillway - Lined	40	410	3000	1813	5263 feet	13057.5
Stilling Basins	25	28	5	-	58 each	132.0
Stormdrain Pipe	13588	22163	1787	1425	38963 feet	186.7
Trash Racks	20	55	4	11	90 each	350.0
Vegetative Drains	9	14	5	1	29 each	222.2

FLOODPLAIN AND DRAINAGE MANAGEMENT

— One of the main responsibilities of the District is to protect people and property before an emergency arises by regulating the use of floodplains and by reviewing residential, commercial, and industrial development plans so that new developments will not have or cause drainage problems. In regulating the floodplains, the District delineates floodplains and determines what uses are compatible with the floodplain and whether the proposed uses are adequately protected from flood flows. The District reviews development plans in areas outside the floodplains to be sure the development won't adversely affect adjoining property by diverting or increasing runoff or cause drainage and flooding problems within the development itself.

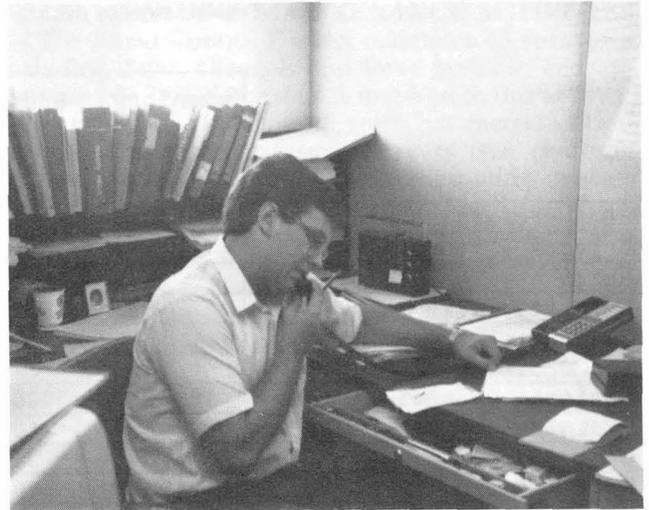
The chart shows the work load during the last three years.

Floodplain Management

	FY 83-84	FY 84-85	FY 85-86
Floodplain Use Permits	11	16	20
Floodplain Variances	15	23	20
Appeals	0	3	4
New Delineations	1	2	10
FCD Clearances	82	64	78
Violation Cases	15	14	11
Referrals to County Attorney	1	2	0

Drainage Management

	FY 83-84	FY 84-85	FY 85-86
Zoning Cases Reviewed	230	212	259
Subdivision Cases Reviewed	NA	55	55
Master Plans Reviewed	4	5	10
Board of Adjustment Cases Reviewed	27	14	21
Drainage Inspections	NA	NA	462

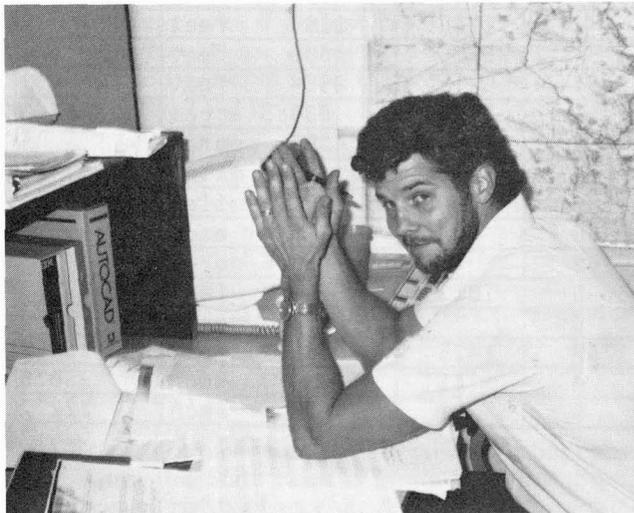


Doug Plasencia, Hydrologist.

AREA DRAINAGE MASTER STUDIES — The District is conducting a number of Area Drainage Master Studies (ADMS's) throughout the County. Each ADMS takes a certain area of the County and studies the past and potential stormwater drainage problems on a watershed basis and proposes solutions. The costs of the studies are often shared with municipalities and other governmental agencies. Most ADMS's include a public involvement effort to inform and hear the reactions of the residents concerning the study and the proposed solutions.

Eastern Maricopa County ADMS — The Study boundaries of this ADMS extend from approximately Brown Road on the north to Ray Road on the south and from the RWCD Canal on the west to beyond the County line on the east. Other agencies involved in the Study are the City of Mesa and the County Highway Department. Several alternatives were considered and the recommended plan consists of a series of detention basins and open channels to outlet into the RWCD Floodway. The Plan is expected to cost approximately \$80 million. At present, no houses or other buildings are in the right-of-way of the basins and channels. Public meetings were held in May and June. The response of the public was positive except for the location of a proposed channel near University Drive. Further study will be done on this location. The public has experienced flooding in that area and is anxious to have stormwater drainage facilities installed.

Glendale-Peoria ADMS — Each city was preparing a separate drainage study and requested District cost-sharing. The District, in cooperation with the two cities, has undertaken an ADMS for an area affecting both cities. The proposed plan is composed of underground pipes and a few retention basins designed generally for the ten-year storm event and outletting into New River. The proposed plan is presently being reviewed by the sponsors.



Brian Dieterick, Hydrologist.

Wittmann ADMS — A consulting engineer and a public involvement consultant have been selected for this area which is northwest of McMicken Dam. The engineering consultant has gathered stormwater drainage information about the area and will prepare alternatives for solving drainage problems. The public involvement consultant has held one meeting during the information gathering stage and other meetings are planned.

Spook Hill ADMS — The Study area is north of the Buckhorn-Mesa Watershed Projects to the National Forest boundary. Other agencies involved in the Study are the City of Mesa, the County Highway Department, and the Soil Conservation Service. After reviewing several alternatives, a plan was proposed which consists of a series of retention basins, underground pipes, open channels, and a dam outletting into the Signal Butte Floodway and Spook Hill Dam. The Plan is expected to cost approximately \$30 million. A public meeting was held in May and those present informed us that they are concerned about preserving the natural desert environment and feel that the costs of the plan in terms of disruption of the natural environment and their lifestyles would be a greater burden than potential flood damages. The District will be studying lower levels of flood protection.

East Fork Cave Creek — The District, in cooperation with the City of Phoenix and the Maricopa County Highway Department, has hired an engineering consultant to study the drainage in this area in northeast Phoenix and Maricopa County generally between the CAP Aqueduct to Greenway Road and between 7th Street to 32nd Street. The engineering study and the public involvement effort are just getting underway.



Pete Martinez at Spook Hill Dam.



Oscar Lozano at Spook Hill Dam.

BUCKHORN-MESA WATERSHED—The Buckhorn-Mesa Watershed Project is a system of interrelated structures being built by the Soil Conservation Service to provide flood protection to rural and urban lands in the Eastern Maricopa County area, generally south of Brown Road from about Bush Highway to Idaho Road.

The Soil Conservation Service awarded a contract to Pulice Construction Company in September 1985 in the amount of \$2.9 million for the construction of the Pass Mountain Diversion and Signal Butte Dam and they are under construction now. As of June 1986 the structures were 70% complete.

Our staff worked for several months with State, local and private agencies to salvage the cacti that would have been destroyed because of the construction. Several thousand saguaro, ocotillo and others were salvaged.

The Signal Butte Dam is being built with an unusual feature. An impervious membrane, the first to be used in any of our SCS structures, will extend from the base of the cut-off trench to above the high water line of the Dam. The heavy plastic membrane is being installed in lieu of the gravel center drain system used in other structures.

The Bulldog Floodway and Apache Junction Dam are the last two structures in the Buckhorn-Mesa Watershed Project. They are presently being designed and are expected to be under construction by the end of 1986.

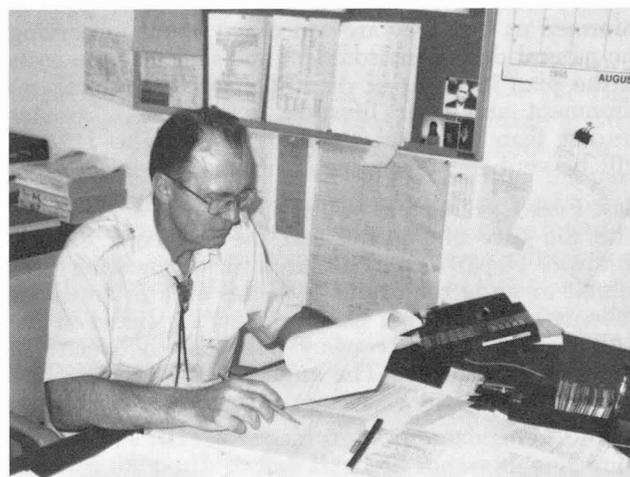
Gila Drain Projects — This overall project has been separated into several major elements to provide storm-water outlets for portions of Chandler, Gilbert, Mesa, Phoenix and Tempe. The District has entered into Intergovernmental Agreements for cost sharing with the municipalities involved on all the elements except for the Price Road Drain which is still in the planning stage.

PROJECT	PARTIES	DISTRICT CONTRIBUTION	CONSTRUCTION DATE
48th Street Storm Drain	Gilbert Phoenix Tempe	\$300,000	Start Fall 1986
Gila Drain Storm Drain	Tempe	\$2,758,700	Start Fall 1986
ADOT Pit and Diversion	Tempe	\$1,293,076	Completion Fall of 1986
Gilbert Downtown Retention Basin	Gilbert	\$287,500	Start Fall 1986
Lindsay Road Regional Basin	Gilbert	\$978,900	Completion Spring 1987
Price Road Drain	Mesa	Not Known	Not Known

SALT/GILA RIVER CONTROL WORKS — In 1982 the District had finished a channel upstream of the State Route 85 Bridge. Flows in the River changed the riverbed and washed out the south bank. In the fall of 1985, we awarded a contract to Breinholt Construction Company to repair the damage and rebuilt the south bank. The contract also includes channelization work upstream on the Gila River and some cleanout work near the SR 85 Bridge. High flows in the River during most of the year prevented the contractor from beginning work, but he was able to start in May 1986.



Jan Warriner, Leonard Eddy, Construction Inspectors.



Earl Kirby, Deputy Chief, Construction and Operations Division.

CONTRACTS AWARDED THIS YEAR

<u>Type of Contract</u>	<u>Number</u>	<u>Contract Amount Including Contingencies</u>
Appraisal	25	\$ 77,950
Engineering Services	21	1,867,620
Construction	11	14,603,036
Maintenance of Structures	2	325,000
Rental Property Maintenance	26	113,342
Public Involvement	3	135,000
Relocation Assistance	1	7,680
Total	89	\$17,129,628

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE
BUDGET AND ACTUAL
YEAR ENDED JUNE 30, 1986
(Preliminary & Unaudited)

<u>REVENUES</u>	<u>BUDGET</u>	<u>ACTUAL</u>	<u>VARIANCE FAVORABLE (UNFAVORABLE)</u>
Flood Control District Tax Levy	\$36,170,000	\$33,644,000	\$(2,526,000)
State Assistance			
Federal Projects			
Local Projects	5,305,000	4,428,000	(877,000)
County Reimbursement			
Local Participation	6,827,000	3,867,000	(2,960,000)
Rental	1,000,000	935,000	(65,000)
Interest Earnings	2,000,000	2,140,000	140,000
Miscellaneous	<u> </u>	<u>843,000</u>	<u>843,000</u>
Total Revenues	<u>51,302,000</u>	<u>45,857,000</u>	<u>(5,445,000)</u>
 <u>EXPENDITURES</u>			
Personnel Services			
Salaries and Wages	3,007,000	2,560,000	447,000
Overtime	<u>75,000</u>	<u>8,000</u>	<u>67,000</u>
Total	<u>3,082,000</u>	<u>2,568,000</u>	<u>514,000</u>
Supplies and Services			
Professional Services Contracts	1,187,000	865,000	322,000
Maintenance Contracts	390,000	139,000	251,000
Maintenance Supplies	400,000	189,000	211,000
Insurance	35,000	35,000	
Other Supplies and Services	<u>675,000</u>	<u>698,000</u>	<u>(23,000)</u>
Total	<u>2,687,000</u>	<u>1,926,000</u>	<u>761,000</u>
Capital Outlay			
Real Estate	15,300,000	10,476,000	4,824,000
Engineering & Scientific Equip.	4,425,000	2,725,000	1,700,000
Motor Vehicles & Equipment	941,000	360,000	581,000
Const. & Other Capital Outlay	<u>42,251,000</u>	<u>37,766,000</u>	<u>4,485,000</u>
Total	<u>62,917,000</u>	<u>51,327,000</u>	<u>11,590,000</u>
Total Expenditures	<u>68,686,000</u>	<u>55,821,000</u>	<u>12,865,000</u>
Excess (Deficiency) of Revenues over Expenditures	(17,384,000)	(9,964,000)	7,420,000
Fund Balance at Beginning Year	<u>28,457,000</u>	<u>28,457,000</u>	
Fund Balance at End of Year	<u>\$11,073,000</u>	<u>\$18,493,000</u>	<u>\$ 7,420,000</u>

**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
EXPENDITURES BY ACTIVITIES AND FUNCTIONS *
FY 85/86
(Preliminary & Unaudited)**

<u>ACTIVITY</u>	<u>OPERATIONS EXPENDITURES</u>		<u>CAPITAL IMPROVEMENTS PROGRAM</u>		
	<u>Administrative</u>	<u>Maintenance</u>	<u>Engineering</u>	<u>Lands</u>	<u>Relocation & Construction</u>
Administrative Overhead	\$1,521,000	\$ 24,000	\$	\$	\$ 162,000
Maintenance Overhead	3,000	755,000			
USGS Service Work	99,000				
Enforcement of Flood-plain Regulations	10,000				
Work done for Planning & Development	168,000	1,000			
Watershed Hydrology	25,000				
Floodplain Delineation	74,000				
Flood Insurance	28,000				
Hydrologic Data Collection	1,000	9,000			
Flood Warning System	37,000	55,000			62,000
Floodplain Admin.	69,000				
Computer Systems	33,000	8,000			
City of Chandler	1,000				
City of Scottsdale	1,000				
City of Tempe					4,652,000
Town of Gilbert		1,000			1,266,000
Town of Wickenburg	1,000	7,000			
Dysart Road - Agua Fria Drain	1,000				
48th Street Drain	1,000	6,000			
Alma School Drain		4,000			
Old Cross Cut Canal	1,000	21,000	125,000		
Broadway Rd. Bank Stabilization			3,000		
Salt/Gila Clearing & Channelization		375,000			
Salt/Gila Control Works	3,000	6,000	35,000	30,000	482,000
Sossaman Road		3,000			
Agua Fria River	2,000	15,000	2,000	20,000	27,000
Agua Fria River (ADOT Agreement)			38,000	3,000	658,000
Indian Bend Wash Outlet		13,000			
Indian Bend Wash Inlet	2,000	8,000			
Indian Bend Wash Greenbelt	1,000				
Indian Bend Wash Interceptor and Side Channels	3,000	10,000	1,000	2,000	
Gila Drain	2,000		39,000		
ACDC	10,000	348,000	457,000	1,233,000	8,644,000
Paradise Valley, Scottsdale, Phoenix			3,000		
RWCD-Williams/Chandler	6,000	100,000	6,000	42,000	1,552,000
RWCD-Apache Junc./Gilbert	10,000	8,000	87,000	8,000	1,710,000
RWCD-Buckhorn/Mesa	1,000	8,000	4,000	62,000	13,000
Rio Salado	1,000				

ACTIVITY	OPERATIONS EXPENDITURES		CAPITAL IMPROVEMENTS PROGRAM			
	Administrative	Maintenance	Engineering	Lands	Relocation & Construction	
White Tanks Dam #3		8,000				
White Tanks Dam #4		17,000				
McMicken Dam		29,000	35,000	1,000		40,000
Dreamy Draw Dam		8,000				
McMicken Dam Outlet Channel		26,000				
Guadalupe Dam		8,000				
Buckeye #1		30,000				
Buckeye #2		6,000				
Buckeye #3		7,000				
Spook Hill FRS & Outlet	11,000	55,000				
Signal Butte Floodway	8,000	10,000				
Pass Mountain FRS & Outlet	3,000	4,000				
Apache Jct. FRS, Floodway, Outlet and Bulldog	2,000		14,000	3,274,000		25,000
Signal Butte FRS	1,000	2,000				
Powerline Dam		5,000				
Powerline Floodway		13,000				
Vineyard Road FRS		35,000				
Rittenhouse FRS		16,000				
Harquahala FRS & Floodway		30,000				65,000
Saddleback FRS	4,000	8,000				58,000
Saddleback Diversion Channel		1,000				
Centennial Levee	1,000		1,000	106,000		1,000
Harquahala Floodway		6,000	1,000			
Sunset FRS		2,000				
Sunnycove FRS		1,000				
Sunset/Sunnycove Pipeline		2,000				
Cave Buttes Dam	1,000	26,000				
Adobe Dam	1,000	14,000	1,000	7,000		
Skunk Creek Channel at I-17		5,000				
New River Dam	3,000	26,000	20,000	110,000		14,000
Skunk Creek and New River Flowage Easements	9,000		32,000	5,096,000		3,000
Agua Fria River Flowage Easements	2,000	1,000	1,660,000	1,270,000		17,816,000
Guadalupe and Spookhill Flowage Easements			21,000			
Spookhill Watershed ADMS	7,000		33,000			
Glendale/Peoria Drainage	72,000					
East Maricopa ADMS	12,000		124,000			75,000
Glendale-Peoria ADMS	5,000		35,000			
East Fork Cave Creek ADMS	5,000		3,000			
White Tanks-Agua Fria ADMS	1,000		1,000			
Queen Creek ADMS	1,000					
Gilbert-Chandler ADMS	1,000					
Total	<u>\$2,265,000</u>	<u>\$2,186,000</u>	<u>\$2,781,000</u>	<u>\$11,264,000</u>		<u>\$37,325,000</u>

* Expenditures by Activities and Function will not always agree with Expenditures by Task on page 2 except in total.

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
 RENTAL PROGRAM FY 85/86
 (Preliminary & Unaudited)

Project Name	# of Leasible Properties *	# Leased *	Vacancy Rate %	Gross	Net
Arizona Canal					
Diversion Channel	89	86	3.4%	\$870,000	\$615,000
RWCD Floodway	3	3	0.0%	34,000	31,000
Cave Buttes Dam	1	1	0.0%	10,000	9,000
New River Dam	2	2	0.0%	7,000	6,000
Agua Fria River	1	1	0.0%	5,000	5,000
Signal Butte FRS	2	2	0.0%	7,000	4,000
Indian Bend Wash	3	3	0.0%	1,000	1,000
Adobe Dam	1	1	0.0%	\$ 1,000	(1,000)
Total	102	99	2.9%	\$935,000	\$670,000

* Data as of June 30, 1986.

HISTORY OF THE TAX LEVY RATE
 FOR THE FLOOD CONTROL DISTRICT
 OF MARICOPA COUNTY

For fiscal year ending	Levy Rate per \$100 assessed value	Tax Revenue
1961	0.05	\$ 253,000
1962	0.05	\$ 288,000
1963	0.02	\$ 126,000
1964	0.02	\$ 135,000
1965	0.02	\$ 145,000
1966	0.02	\$ 153,000
1967	0.02	\$ 158,000
1968	0.02	\$ 164,000
1969	0.05	\$ 446,000
1970	0.05	\$ 454,000
1971	0.05	\$ 480,000
1972	0.04	\$ 425,000
1973	0.05	\$ 645,000
1974	0.20	\$ 3,428,000
1975	0.20	\$ 3,747,000
1976	0.20	\$ 4,154,000
1977	0.20	\$ 4,395,000
1978	0.20	\$ 4,675,000
1979	0.20	\$ 5,026,000
1980	0.20	\$ 5,342,000
1981	0.43	\$11,825,000
1982	0.34	\$13,720,000
1983	0.50	\$21,779,000
1984	0.48	\$25,780,000
1985	0.50	\$28,697,000
1986	0.50	\$33,644,000

EXPENDITURES ON LAND
 (Breakdown by Project)
 (Preliminary and Unaudited)

Project	Number of Parcels Bought This Year	Total Land Acquisition Costs	% of Land Acquired To Date
Salt/Gila Control Works	10	\$ 30,000	100%
Agua Fria River	23	1,293,000	40%
Indian Bend Wash	-	2,000	100%
Arizona Canal Diversion Channel	17	1,233,000	86%
RWCD Floodway (Williams/Chandler)	3	42,000	100%
RWCD Floodway (Apache Junction/Gilbert)	1	8,000	98%
RWCD Floodway (Buckhorn/Mesa)	2	62,000	98%
McMicken Dam	-	1,000	70%
Apache Junction FRS & Bulldog Floodway	8	3,274,000	85%
Centennial Levee	3	106,000	100%
Adobe Dam	-	7,000	100%
New River Dam	2	110,000	100%
Skunk Creek/New River Flowage Easements	1	5,096,000	5%
Total		\$11,264,000	



Darlene Wolf, Receptionist



Flood Control Advisory Board—Charles A. Sykes, John E. Miller, Jr., Donald L. Weesner (Salt River Project), James E. Attebery (City of Phoenix), William LoPiano, Paul E. Perry. Lynn Anderson not in picture.

BOARD OF DIRECTORS

- GEORGE CAMPBELL, District 2*, Chairman, January 6 to June 30, 1986
- CAROLE CARPENTER, District 4*
- TOM FREESTONE, District 1*, Chairman, July 1, 1985 to January 6, 1986.
- FRED KOORY, JR., District 3*
- ED PASTOR, District 5*

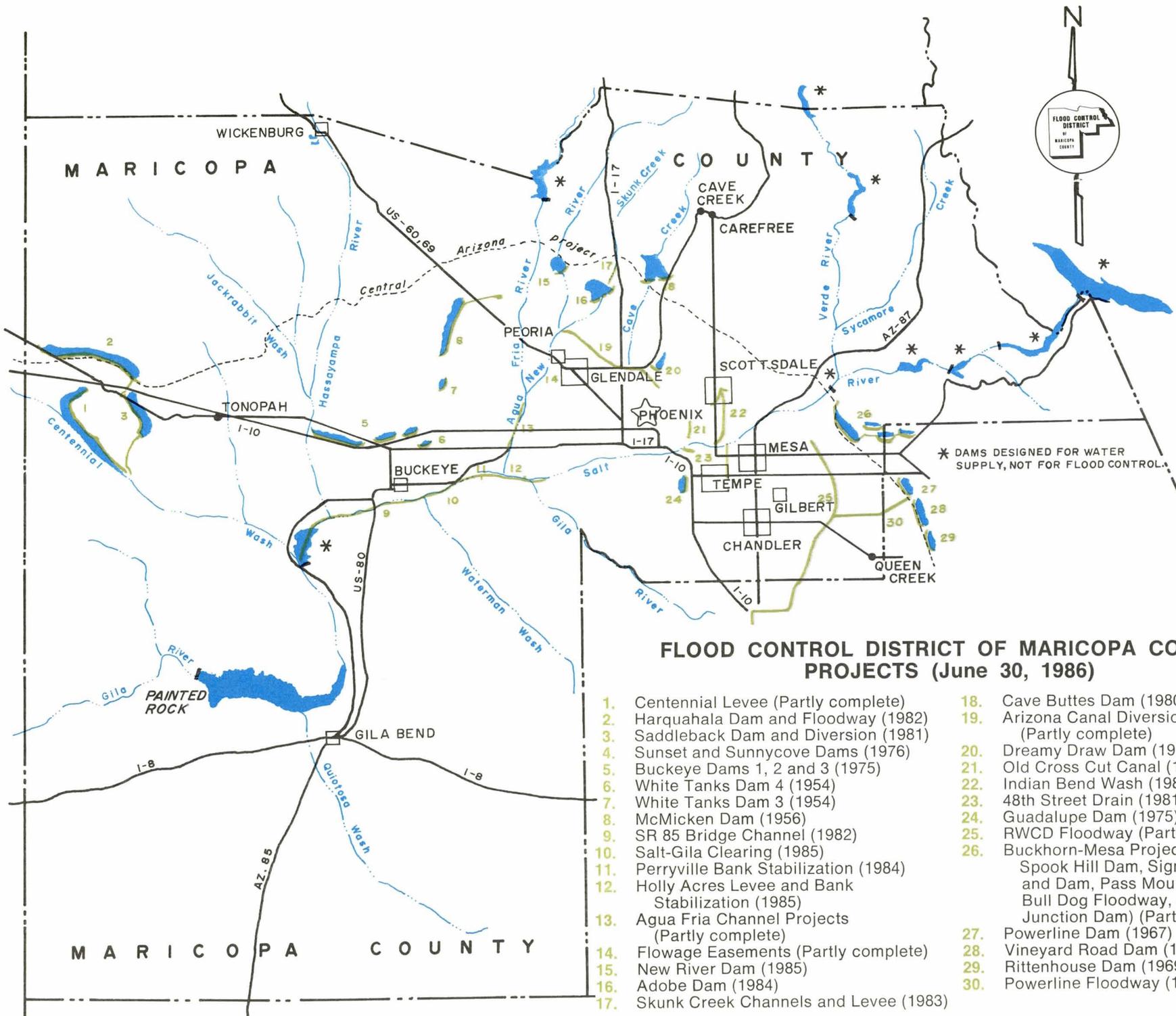
*Supervisorial Districts (Directors are also Supervisors of Maricopa County).

FLOOD CONTROL ADVISORY BOARD

- H. LYNN ANDERSON
- JOHN E. MILLER, JR., Chairman, July 1, 1985 to October 30, 1985
- WILLIAM LOPIANO, Chairman, November 1, 1985 to June 30, 1986
- PAUL E. PERRY
- CHARLES A. SYKES
- JAMES E. ATTEBERY, ex officio member, City of Phoenix
- REED TEEPLES, ex officio member, Salt River Project, July 1, 1985 to October 30, 1985
- DONALD L. WEESNER, ex officio member, Salt River Project, November 1, 1985 to June 30, 1986

PRINCIPAL STAFF MEMBERS

- DANIEL E. SAGRAMOSO, Chief Engineer and General Manager
- STANLEY L. SMITH, JR., Deputy Chief Engineer
- DAVID A. BROZOVSKY, Flood Control Administrator
- ROBERT C. PAYETTE, Chief, Construction and Operations Division
- NICHOLAS P. KARAN, Chief, Engineering Division
- DAVID R. JOHNSON, Chief, Hydrology Division
- EDWARD D. OPSTEIN, Chief, Land Management Division
- JOHN E. RODRIGUEZ, Chief, Planning and Projects Management Division

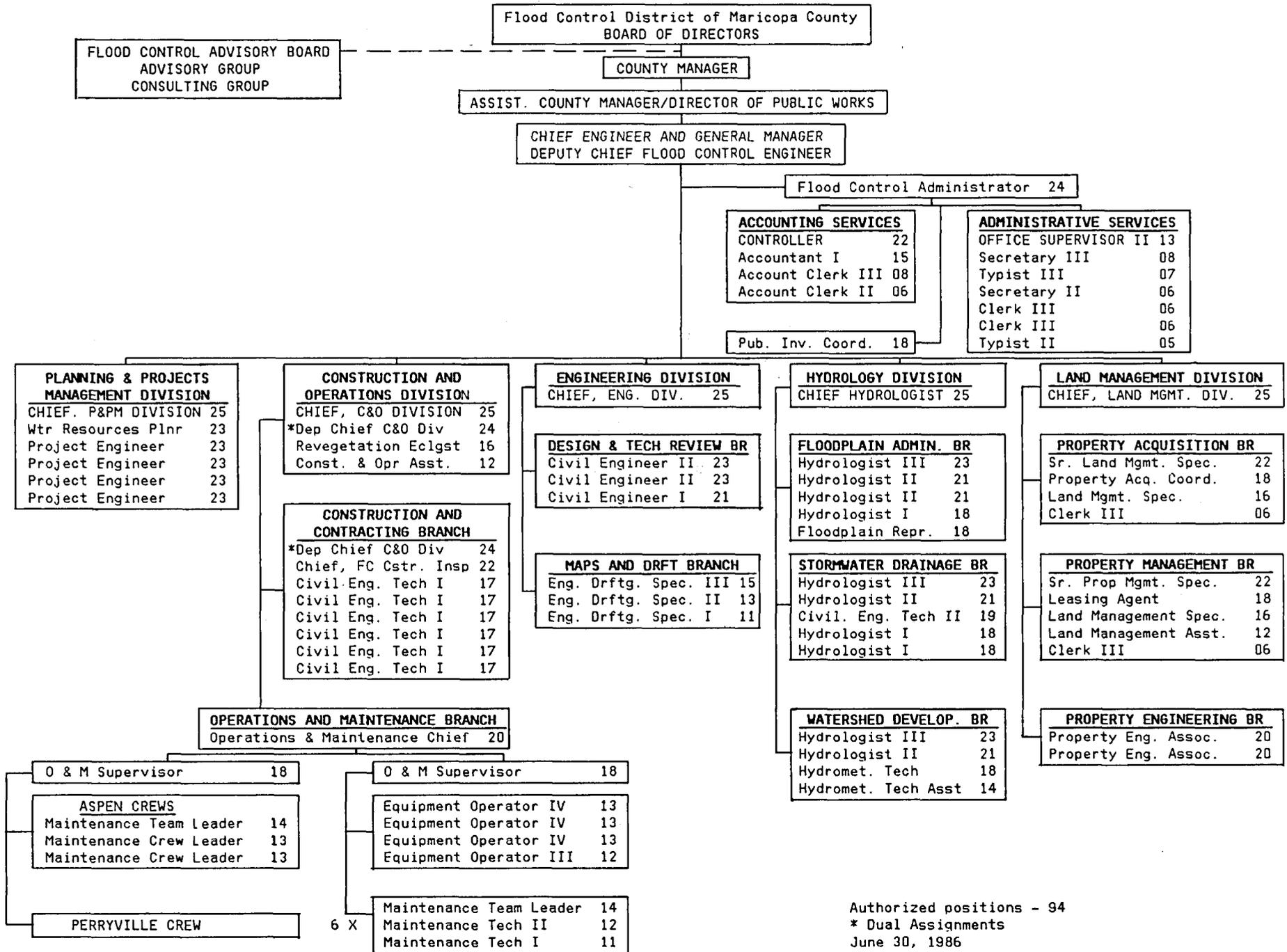


**FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
PROJECTS (June 30, 1986)**

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. Centennial Levee (Partly complete) 2. Harquahala Dam and Floodway (1982) 3. Saddleback Dam and Diversion (1981) 4. Sunset and Sunnycove Dams (1976) 5. Buckeye Dams 1, 2 and 3 (1975) 6. White Tanks Dam 4 (1954) 7. White Tanks Dam 3 (1954) 8. McMicken Dam (1956) 9. SR 85 Bridge Channel (1982) 10. Salt-Gila Clearing (1985) 11. Perryville Bank Stabilization (1984) 12. Holly Acres Levee and Bank Stabilization (1985) 13. Agua Fria Channel Projects (Partly complete) 14. Flowage Easements (Partly complete) 15. New River Dam (1985) 16. Adobe Dam (1984) 17. Skunk Creek Channels and Levee (1983) | <ol style="list-style-type: none"> 18. Cave Buttes Dam (1980) 19. Arizona Canal Diversion Channel (Partly complete) 20. Dreamy Draw Dam (1973) 21. Old Cross Cut Canal (1975) (Restudy) 22. Indian Bend Wash (1985) 23. 48th Street Drain (1981) 24. Guadalupe Dam (1975) 25. RWCD Floodway (Partly complete) 26. Buckhorn-Mesa Projects (including Spook Hill Dam, Signal Butte Floodway and Dam, Pass Mountain Diversion, Bull Dog Floodway, and Apache Junction Dam) (Partly complete) 27. Powerline Dam (1967) 28. Vineyard Road Dam (1968) 29. Rittenhouse Dam (1969) 30. Powerline Floodway (1968) |
|--|---|

* DAMS DESIGNED FOR WATER SUPPLY, NOT FOR FLOOD CONTROL.

ORGANIZATIONAL CHART



Authorized positions - 94
 * Dual Assignments
 June 30, 1986